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# Order Of Operations Worksheets Answer Key PDF

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## Part 1: Building a Foundation

**Which of the following correctly represents the order of operations?**

undefined. A) Addition, Subtraction, Multiplication, Division, Parentheses, Exponents

**undefined. B) Parentheses, Exponents, Multiplication and Division, Addition and Subtraction ✓**

undefined. C) Multiplication, Division, Addition, Subtraction, Parentheses, Exponents

undefined. D) Exponents, Parentheses, Addition, Subtraction, Multiplication, Division

The correct order of operations is Parentheses, Exponents, Multiplication and Division, Addition and Subtraction.

**Which of the following are true about the order of operations? (Select all that apply)**

**undefined. A) It ensures consistent results in calculations. ✓**

undefined. B) Multiplication always comes before division.

**undefined. C) Parentheses are solved first. ✓**

undefined. D) Addition is always performed before subtraction.

The order of operations ensures consistent results, and parentheses are solved first.

**Explain why the order of operations is important in mathematics.**

**The order of operations is important because it provides a standard way to evaluate expressions, ensuring that everyone arrives at the same result.**

**List the steps in the PEMDAS order of operations.**

1. What is the first step?

**Parentheses**

2. What is the second step?

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**Exponents**

3. What is the third step?

**Multiplication and Division**

4. What is the fourth step?

**Addition and Subtraction**

The steps in the PEMDAS order of operations are: Parentheses, Exponents, Multiplication, Division, Addition, Subtraction.

**Which operation should be performed first in the expression 8 + (3 × 2)^2?**

undefined. A) Addition

undefined. B) Multiplication

undefined. C) Exponentiation

**undefined. D) Parentheses ✓**

The first operation to be performed is the one inside the parentheses.

## Part 2: Application and Analysis

**What is the result of the expression 7 + 3 × (10 - 4)^2 ÷ 2?**

undefined. A) 52

**undefined. B) 61 ✓**

undefined. C) 73

undefined. D) 85

The result of the expression is 61.

**Which of the following expressions equal 50? (Select all that apply)**

**undefined. A) 5 × (8 + 2) ✓**

**undefined. B) (100 ÷ 2) + 5 ✓**

**undefined. C) 10 × 5 ✓**

undefined. D) 60 - (2 × 5)

The expressions that equal 50 are A, B, and C.

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**Calculate the value of the expression 2 × (3 + 5) - 4^2 and explain each step.**

**The value of the expression is 2, and each step involves following the order of operations.**

**In the expression 2 × [3 + (4 × 2) - 5]^2, which operation is performed last?**

undefined.  A) Multiplication

undefined.  B) Addition

**undefined.  C) Exponentiation ✓**

undefined.  D) Subtraction

The last operation performed is exponentiation.

**Identify the errors in the following solution: 3 + 6 × (5 + 4) ÷ 3 - 7 = 3 + 6 × 9 ÷ 3 - 7 = 3 + 54 ÷ 3 - 7 = 3 + 18 - 7 = 14. (Select all that apply)**

**undefined.  A) Incorrect multiplication ✓**

undefined.  B) Incorrect division

undefined.  C) Incorrect subtraction

**undefined.  D) Incorrect order of operations ✓**

The errors include incorrect multiplication and incorrect order of operations.

## Part 3: Evaluation and Creation

**Which expression will result in the highest value?**

undefined.  A) (2 + 3) × 4^2

**undefined.  B) 2 + (3 × 4)^2 ✓**

undefined.  C) (2 × 3 + 4)^2

undefined.  D) 2 × (3 + 4)^2

The expression that results in the highest value is B.

**Evaluate the following expressions and select those that are equivalent to 64. (Select all that apply)**

**undefined.  A) 4 × (3 + 5)^2 ✓**

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**undefined. B) (8 × 2)^2 ÷ 4 ✓**

**undefined. C) 2^6 ✓**

**undefined. D) 16 × 4 ✓**

The expressions that are equivalent to 64 are A, B, C, and D.

**Create your own mathematical expression using the order of operations that results in 100. Explain the steps to solve it.**

**An example expression could be 10 × (5 + 5) and the steps involve following the order of operations.**

**Reflect on a real-world scenario where the order of operations is crucial. Describe the scenario and explain how you would apply the order of operations to solve a problem within it.**

**In finance, calculating interest involves the order of operations to ensure accurate results.**

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